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for <lyris.regional_freq@tappr.org>; Thu, 14 Oct 1999 13:04:48 -0500 (CDT)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
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Date: Thu, 14 Oct 1999 13:03:39 -0500
To: "TAPR Regional Frequency Special Interest Group"
<regional_freq@lists.tappr.org>
From: Greg Jones <wd5ivd@tappr.org>
Subject: [regional_freq] DCC recap
Cc: "HF SIG list mailing"<hfsig@tappr.org>, " Spread Spectrum "<ss@tappr.org>,
" TAPR/AMSAT DSP "<dsp@tappr.org>,
"APRS SIG list mailing"<aprssig@tappr.org>,
"NETSIG list mailing"<netsig@tappr.org>,
"BBS SIG list mailing"<bbssig@tappr.org>,
" tacgps "<tacgps@tappr.org>, aprsnews@tappr.org, mic-e@tappr.org,
TAPR Regional Freq <regional_freq@tappr.org>
List-Unsubscribe: <mailto:leave-regional_freq-6749X@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-regional_freq@lists.tappr.org>
List-Owner: <mailto:owner-regional_freq@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "TAPR Regional Frequency Special Interest Group"
<regional_freq@lists.tappr.org>
X-Message-Id: <v04020a17b423bf6fe1a5@[192.168.0.2]>
Sender: bounce-regional_freq-6749@lists.tappr.org
Precedence: bulk

1999 ARRL and TAPR Digital Communications Conference
September 24-26, 1999
Phoenix, Arizona
Greg Jones, WD5IVD

Another grand Digital Communications Conference! Special thanks go out to the workers at MARC for hosting locally and to PRUG for being our international co-host again. Also, a very special thanks to Geoff Baehr, N6LXA, Chief Network Officer of Sun Microsystems, for attending and giving the dinner talk on Saturday. Steve Stroh, N8GNJ, and Tina Stroh did an excellent job in working the arrangements with the hotel in Phoenix once it was selected. Tina wasn't able to attend because they are in the midst of adopting a child. Congratualtions to Tina and Steve. Sheila Bible was a big help and will be working with Tina in the coming years to help coordinate the conferences as I take a lesser role in the conference. As in the past, audio and photos from the conference will be available on the TAPR web site (<http://www.tappr.org/dcc>).

Next year's DCC will be hosted in Orlando, FL. The date of the conference should be selected by the end of the year.

The conference started Friday afternoon with the third annual APRS National Symposium moderated by Steve Dimse, K4HG. The symposium was full of talks

and projects. During the symposium yet another new mystery hardware project was discussed. This years was a sneak preview provided by Kenwood to all those attending the DCC of their new mobile APRS equipped radio. The following people spoke at the APRS Symposium.

APRSDos and TrakNet update

Bob Bruninga, WB4APR

MacAPRS/WinAPRS Update

Keith Sproul, WU2Z

XAPRS

Keith Sproul, WU2Z

APRS+SA Update

Brent Hildebrant, KH2Z

Internet and APRS

Steve Dimse, K4HG

WinCE version

Rob Wittner, KZ5RW

Kenwood TH-D7 Tricks, Treats, and Tragedies

Stan Horzempa, WA1LOU

Arizona APRS

David McCarthy, KC7AYX

APRS ICQ

Tom Schaefer, NY4I

Microcontrollers and APRS

Steve Bible, N7HPR

APRS Working Group Update

John Ackermann, N8UR

The Friday Technical Seminar on HDTV by Allen Finne, KB5SQK was cancelled at the last minute when Allen could not attend.

Friday night saw the annual DCC social, which was sponsored by PRUG. After the social, PRUG presented a technical paper highlighting their current development. The papers focused on what had been happening with their prototype direct-sequence radio operating in the 2.4 GHz band. This prototype appears to be very well designed from an experimentation point of view.

As with past years, Saturday was split into two strands -- a paper session and a session featuring selected topics. As in previous years, the selected topic strand had fewer topics with more time to present. Four selected topics were presented. Steve Bible, N7HPR, presented an introduction to PICs. Guy Story, KC5GOI, presented an overview to APRS and discussed some of the latest happenings in the mode. Johan Forrer, KC7WW, did an overview and current status on HF communications. Bob Nielsen, W6SWE, did a talk on the current status of Linux in the amateur community. Thanks to all the selected topic speakers for taking the time to present more in-depth materials during the DCC.

The paper sessions included the following talks:

Regulatory Issue and Update

Dewayne Hendricks, WA8DZP

ARRL Technology Task Force & The Technology Working Group

Rich Moseson, W2VU
Arizona Packet Radio, Past Present and Future
Keith Justice, KF7TP & Dan Meredith, N7MRP
APRS Mic-Lite
Bob Bruninga, WB4APR
APRS for X-Windows (Linux)
Keith Sproul, WU2Z
Automatic Weather Bulletins via APRS
Keith Sproul, WU2Z
APRS Generic Digipeating Satellites for HT and Mobile Satellite Communications
Bob Bruninga, WB4APR
XML and APRS
Steve Dimse, K4HG
APRN: Automatic Picture Relay Network and SSTV Picture Server
Keith Sproul, WU2Z & Bob Bruninga, WB4APR
APRS Stand Alone Message Receiver
Keith Sproul, WU2Z
Proposal for a Spread Spectrum Transponder Payload on the International
Space Station
Matthew Ettus, N2MJI
UWB (Ultra Wide Band) Technology
Dewayne Hendricks, WA8DZP
Status Report on TAPR 900MHz SS Radio Project
Tom McDermott, N5EG
A Low-Cost HF Channel Simulator for Testing and Evaluating HF Digital Systems
Johan Forrer, KC7WW
(Non Technical) Lessons to be learned from the PSK31 Phenomena
Eduardo Jacob, EA2BAJ
A software Implementation for Federal Standard 1052 (Mil. Std. 188-110A HF
Modems)
Robert McGwier, N4HY
A Practical Approach to Implementing HF Digital Voice in the Amateur Service
Charles Brain, G4GUO
HamWeb and HamStation
Dale Puckett, K0HYD

For the banquet speaker, we were very fortunate to have Geoff Baehr, N6LXA, Chief Network Officer of Sun Microsystems. Geoff gave a very interesting and thought-provoking talk on the future of the Internet and networking in general and gave some comments on the future of amateur radio. We were very fortunate to have Geoff attend the conference and much thanks goes to Dewayne Hendricks, WA8DZP, for helping arrange another good banquet talk.

The Sunday morning seminar was a more time-intensive version of last year's introductory session on PIC development. Steve Bible, N7HPR, Steve Dimse, K4HG, John Hansen, W2FS, and Byon Garrabrant, N6BG gave a 5 hour long seminar on PIC development and programming issues. They showed lots of interesting projects and answered a lot of questions from the audience.

Thanks to all those that I missed mentioning who helped with the DCC and I look forward to seeing you next year!

Tucson Amateur Packet Radio

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